



#B/A  
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COPY OF PAPERS  
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<110> Suga, Hiroaki

<120> Catalytic RNA Molecules with Aminoacylation Activity

<130> 11520.0222

<140> US 09/721,414

<141> 2000-11-22

<150> US 60/167,331

<151> 1999-11-24

<150> US 60/214,382

<151> 2000-06-28

<160> 22

<210> 1

<211> 110

<212> DNA

<213> artificial sequence

<220>

<221> n

<222> 21-90

<223> synthetic oligonucleotide containing random pool of 70 nucleotides; n represents a,t,g or c.

<400> 1

ggatcgtcag tgcattgaga nnnnnnnnnn nnnnnnnnnn	40
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	80
nnnnnnnnnn ggtggtatcc ccaaggggta	110

<210> 2

<211> 76

<212> DNA

<213> artificial sequence

<220>

<223> completely synthesized primer complementary to the otRNAGln

<400> 2

tggctgcggt acgaggattc gaacctcgga atgccggatt	40
tagaaatccg gtcccttacc ccttggggat accacc	76

<210> 3

<211> 52

<212> DNA

<213> artificial sequence

<220>

<223> 5' primer containing T7 promoter sequence

<400> 3

ggtaacacgc atatgtaata cgactcacta taggatcgtc	40
agtgcattga ga	52

<210> 4

<211> 20

<212> DNA  
 <213> artificial sequence

<220>  
 <223> 3'completely synthesized primer

<400> 4  
 tggctgcggt acgaggattc 20

<210> 5  
 <211> 146  
 <212> RNA  
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<220>  
 <223> pre-12 catalytic RNA

<400> 5  
 ggauugucag ugcauugaga uuuccgcagc ccuucucacu 40  
 aacggugggu cauggguauu ggcguuaggu gcggggaugcu 80  
 acgcuggugg uauccccaag gguacgggac cggacauucg 120  
 agauucgaau ccucguaccg cagcca 146

<210> 6  
 <211> 151  
 <212> RNA  
 <213> artificial sequence

<220>  
 <221> n  
 <222> 12  
 <223> pre-38 catalytic RNA; n represents a,u,g or c

<400> 6  
 ggauugucag uncauugaga uuuccgcagc ccuucucacu 40  
 aacggugggu ucauggguau uggcguuaggu ugcggggaugc 80  
 uacuacgcug gugguauccc caagggguacg ggaccggauc 120  
 auucgagauu cgaauccucg uaccgcagcc a 151

<210> 7  
 <211> 150  
 <212> RNA  
 <213> artificial sequence

<220>  
 <223> pre-29 catalytic RNA

<400> 7  
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 uaacgguggg ucauggguau uggcguuaggu ugcggggaugc 80  
 uacuacgcug gugguauccc caagggguacg ggaccggaca 120  
 uucgagauuc gaauccucgu accgcagcca 150

<210> 8  
 <211> 150  
 <212> RNA  
 <213> artificial sequence

<220>

<223> pre-36 catalytic RNA

<400> 8

ggaucgucag	ugcauugaga	uuuccgcagc	ccuucucacu	40
aacggugggu	cauggguauu	ggcguuaggu	gcggggaugcu	80
acuacgcugg	ugguaucucc	aagggguacgg	gaccggauca	120
uucgagauuc	gaauccucgu	accgcagcca		150

<210> 9

<211> 150

<212> RNA

<213> artificial sequence

<220>

<223> pre-24 catalytic RNA

<400> 9

ggaucgucag	ugcauugaga	uuuccgcagg	ccuucucac	40
uaacgguggg	ucauggguau	uggcguuagg	ugcgggaugc	80
uacuacgcug	gugguaucucc	caagggguacg	ggaccggaca	120
uucgagauuc	gaauccucgu	accgcagcca		150

<210> 10

<211> 149

<212> RNA

<213> artificial Sequence

<220>

<223> pre-25 catalytic RNA

<400> 10

ggaucgucag	ugcauugaga	uuuccgcagc	ccuucucacu	40
aacggugggu	cauggguauu	ggcguuaggu	gcggggaucac	80
acuacgcugg	ugguaucucc	aagggguacgg	gaccggacau	120
ucgagauucg	aauccucgua	ccgcagcca		149

<210> 11

<211> 149

<212> RNA

<213> artificial Sequence

<220>

<223> pre-22 catalytic RNA

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aacggugggu	cauggguguu	ggcguuaggu	gcggggaugcu	80
acuacgcugg	ugguaucucc	aagggguacgg	gaucggacau	120
ucgagauucg	aauccucgua	ccgcagcca		149

<210> 12

<211> 149

<212> RNA

<213> artificial Sequence

<220>

<221> n

<222> 112

<223> pre-5 catalytic RNA; n represents a,u,g or c

<400> 12

ggaucgucag ugcauugaga uuuccgcagc cccucucacu	40
aacggugggu cauggguauu ggcguuaggu gcgggauucu	80
acuacgcugg ugguaucucc aaggguaacgg gnccggacau	120
ucgagauucg aauccucgua ccgcagcca	149

<210> 13

<211> 149

<212> RNA

<213> artificial Sequence

<220>

<223> pre-19 catalytic RNA

<400> 13

ggaucgucag ugcauugaga uuuccgcagc ccuucucacu	40
aacgguaaggu cauggguauu ggcguuaggu gcgggauucu	80
acuacgcugg ugguaucucc aaggguaacgg gaccggacau	120
ucgagauucg aauccucgua ccgcagcca	149

<210> 14

<211> 150

<212> RNA

<213> artificial Sequence

<220>

<223> pre-8 catalytic RNA

<400> 14

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aacggugggu ucauggguau uggcguuagg ugcgggaugc	80
uacuacgcug gugguaucuu caaggguaacg ggaccggaca	120
uucuagauuc gaauccucgu accgcagcca	150

<210> 15

<211> 148

<212> RNA

<213> artificial Sequence

<220>

<223> pre-23 catalytic RNA

<400> 15

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aacggugggu cauggguauu ggcguuaggu gcgggauucu	80
acuacgcugg ugguaucucc aggguaacgg accggacauu	120
cgagauucga auccucguac cgcagcca	148

<210> 16

<211> 75

<212> RNA

<213> Escherichia coli

<220>

<223> otRNA

<220>

<223> V2 variant of otRNA

<400> 21

ggugguauc	ccaagggua	cgggaccgga	uucuaaauc	40
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<210> 22

<211> 73

<212> RNA

<213> artificial sequence

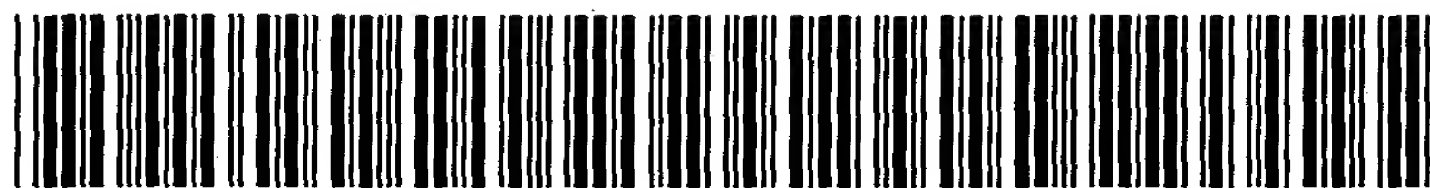
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<223> V3 variant of otRNA

<400> 22

ggugguauc	ccaagggua	gggaccggau	ucuaaaucg	40
gcauucgag	uucgaauc	cguaccgcag	cca	73

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